



LPAT Day 8 – June 3, 2019

Day 8 is done. Today we heard testimony from another consultant who, like hydrogeologist Stan Denhoed, has been working on the Hidden Quarry project with JDCL since 1995.

IMPORTANT HOUSEKEEPING UPDATES:

- 1. NOTE: Tomorrow, Tuesday, the session will begin at 10 am! Hearing times are 9:30 to 4:45** unless otherwise advised.
2. There is an hour for lunch at no specified time.
- 3. There will be no Hearings on Fridays June 14 and 28.**
4. The **agenda for Tuesday** is at the end of this report.
- 5. [Sign in on our roster here.](#) Note: This is a new link with the first two weeks of June listed.**
6. **BRING A CUSHION!**
- 7. NEW!! Most participants will present their statements on Monday, June 17. Mark your calendars so you can come to support them.**

Session Content (This is not a detailed report – just a very simplistic record of activity because of the complexity of the issues, technical analyses and regulatory requirements. Any inaccuracies or opinions are Linda Sword's, not CRC's!!)

Dr. Worthington, bedrock hydrogeologist for JDCL, continued his testimony, reinforcing his opinion that bacteria could not affect Well # 4 or Brydson Spring because they would not survive that long in the flat and slow-moving quarry pond, in fact there would less risk of well and spring contamination than under present circumstances. When Chris Barnett began his cross examination he confirmed with Dr. Worthington that he had not done a specific study on the Hidden Quarry pond with an eye to the die-off time of bacteria and viruses, and later Dr. Worthington did tell C. Barnett that he was not an expert in surface water contamination, and that the presence of water fowl might be a reason for unpredictability. On groundwater modelling, Dr. Worthington indicated that there was uncertainty, but that the techniques are improving. When C. Barnett asked him to explain test particle lines emanating in not one but several directions from Well # 4 after test pumping which purported to show the origins of the water supply to the well, Dr Worthington explained that these lines on the model were glitches in the graphics program, that he had therefore ignored them and had not discussed them with Stan Denhoed who had created the model. We all became just a little concerned about glitches in groundwater models. It is clear that Dr. Worthington has a wealth of knowledge and that his many academic papers and understanding of the subject are noteworthy. It will be interesting to hear Dr. Frind's learned responses to the testimony in a few weeks.

Mr. Hurley, water resources engineer for JDCL, testified to his studies of flooding potential at the site, with an eye to the contaminated water from Tributary B from the north overflowing into a quarry pond. The extreme weather event which is the basis for estimating maximum flooding is Hurricane Hazel (1954). He had assessed that flooding in a H. Hazel scenario would overflow the 20-metre flood plain around the tributary in the vicinity of the haul road between Phases 1 and 2, and recommended small berms in this area to prevent run-off. He told Chris Barnett in cross examination that he had not done any calculations for other potential weather extremes resulting from climate change.

Another long and thorough review of the natural environment by **Greg Scheifele, JDCL ecologist and forestry expert**, began with his description of his forest management work, begun in about 2010, on the Brydson property across Highway 7 from the site. He then went on to say that he had undertaken natural environment assessments on the proposed Hidden Quarry site in 1995 and had returned to the site for a second study in 2010. He reviewed the history of the site, of its zoning, of its topography, of the establishment of the tree plantation by the former owners in the 80's, and reviewed the species of flora and fauna observed on the site as well as its natural heritage features. Searches had revealed that there were no fish in Tributary B, and he went out of his way to say he has never seen a fish in Brydson Creek on the Brydson property. (Note: CRC's aquatic habitat expert will be amazed to hear this.) He identified observed threatened species on or in the 150 metre zone adjacent to the site – snapping turtle, little brown bat, bobolink, wood thrush, eastern wood peewee – but indicated that there was no special habitat on the site that couldn't be duplicated, or even be more suitable, elsewhere...In his testimony he described changes in provincial policies relative to species at risk, as well as changes to the Wellington County Official Plan which now classified the site as greenlands (plantation) and core greenlands (mature growth). This change had erased any County reference to the site as an aggregate resource site, but he said there was a lot of recorded communication with the County pointing to the tree plantation as an interim use pending extraction. He added that there was no significant economic value in the harvest of woodland trees, and no recreational, educational, culturally important historical value either, barring further archaeological findings after approval.

What's on the agenda for tomorrow?

Mr. Scheifele will continue his testimony before cross examination. He may be followed by JDCL witnesses, Chris Wren, expert in Fish Biology and perhaps Peter Stewart on Cultural Heritage.